



Defense Finance and Accounting Service

System Acquisition through Milestone C

Your Financial Partner @Work

DFAS-DTC
SLC Seminar 2002 & 2003

MSC-03-1

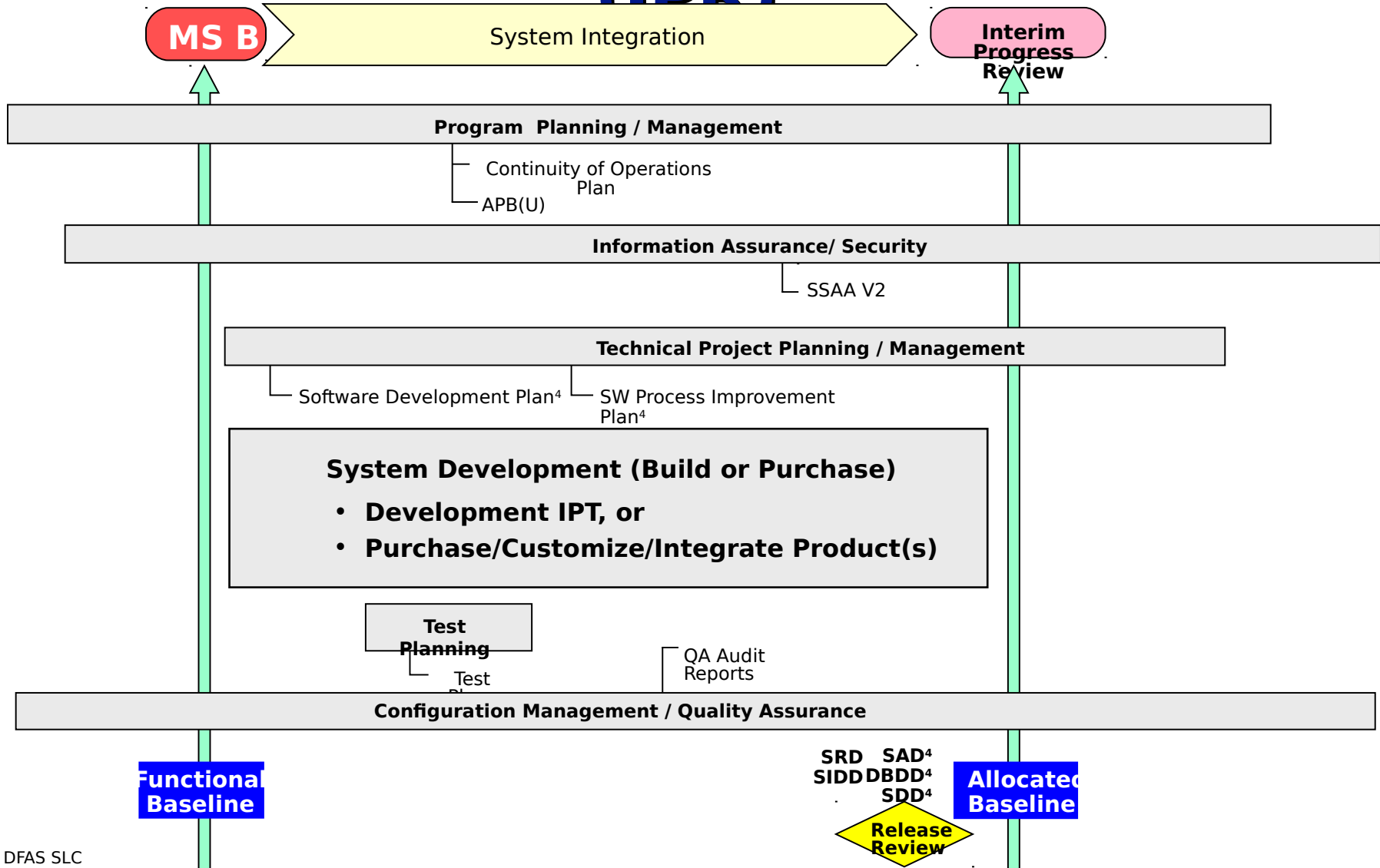
System Development and Demonstration

- System Integration**
 - **Program Planning/Management**
 - **Information Assurance/Security**
 - **Technical Project Planning/Management**
 - **System Development (Build or Purchase)**
 - **Test Planning**
 - **Configuration Management / Quality Assurance**
- System Demonstration**
 - **Program Planning/Management**
 - **Information Assurance**
 - **Deployment Planning**
 - **Development Test & Evaluation**
 - **Operational Test & Evaluation**
- Milestone C Review**



System Integration Leads to Interim Progress Review

(IDR)



System Integration

– What's Done in this Phase:

- Develop continuity of operations plan
- Update Acquisition Program Baseline (APB)
- Verify info assurance design against requirements (System Security Authorization Agreement)
- Develop and/or procure software product(s)
- Transform data
- Develop test plans
- Control Program & Functional Baselines

– Concludes with:

- **Interim Progress Review**

Program Planning/Management (1)

- Maintain Customer Relationship**
- Establish Development Integrated Product Team**
- Develop Continuity of Operations Plan**
- Manage Program Acquisition (Update APB)**
- Estimate Life Cycle Resources**
- Determine Release Content**
- Manage Program and Functional Baseline**
- Perform Program Management Reviews**
- Conduct Interim Progress Review**

Information Assurance/Security (1)

- Conduct DITSCAP Phase 2, Verification**

Technical Project Planning/Management

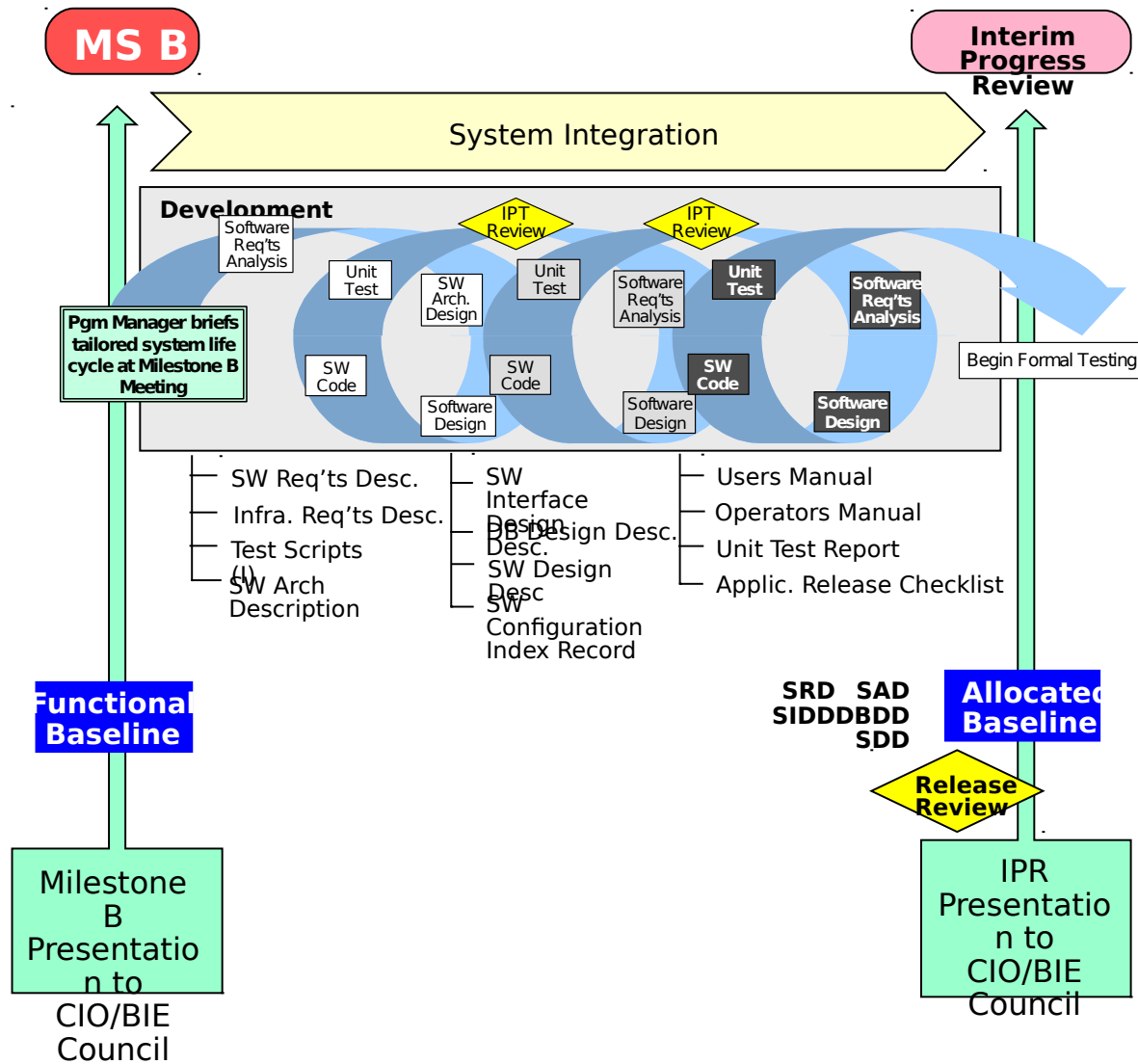
- Support Development Integrated Product Teams**
- Coordinate Technical Integration ***
- Assess Technical Project Risks ***
- Manage Technology/Services Acquisition**
- Manage Software Quality Assurance**
- Ensure Configuration Management**

System Development

- **Develop
OR
Purchase/Customize/Integrate

(Build vs. Buy)**

Develop



Develop (1)

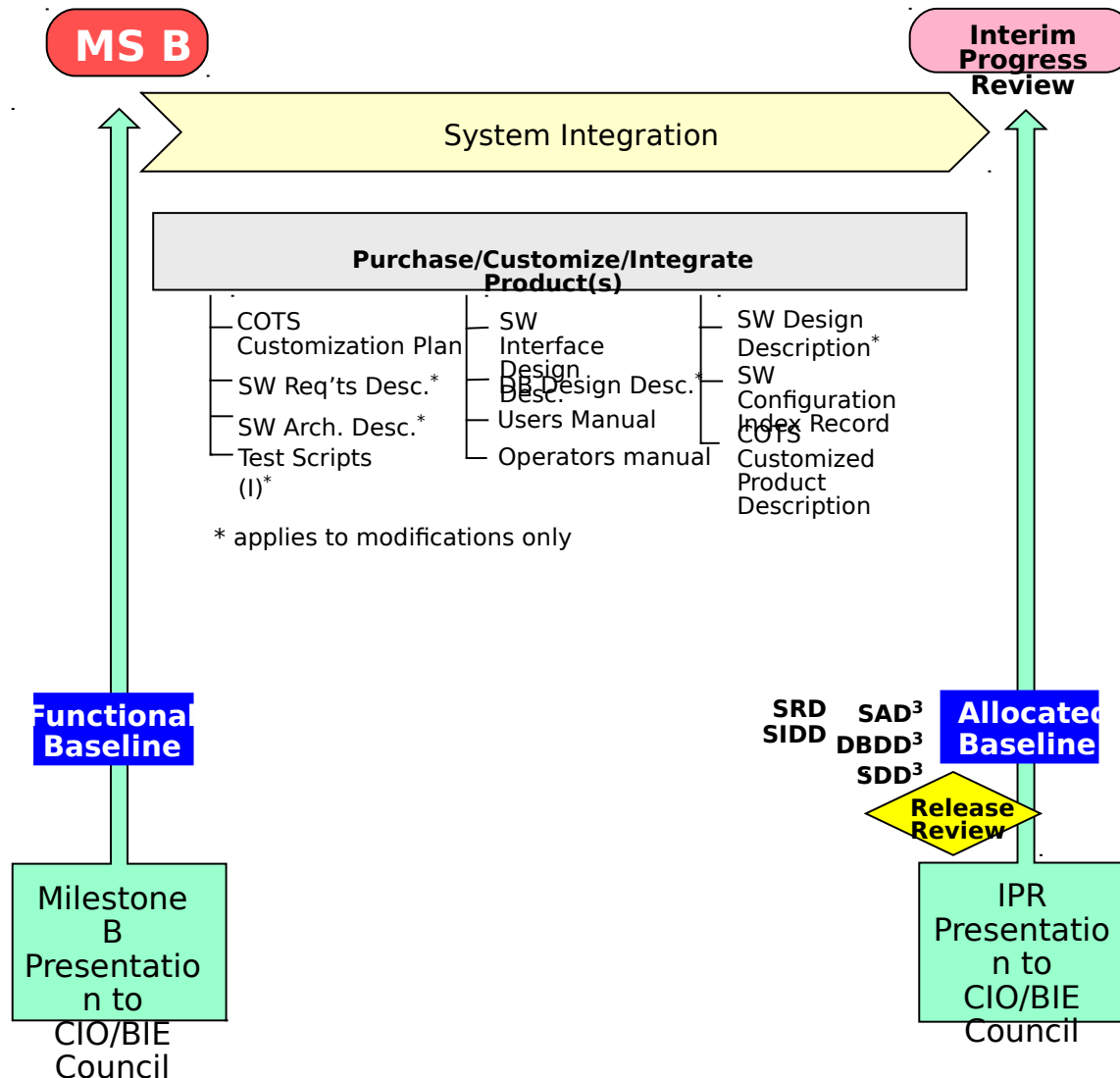
- **Identify Integration Requirements**
- **Perform Release Impact Analysis ***
- **Prepare Software Development Plan**
- **Develop Integrated Software Architecture ***
- **Perform Application Development**
- **Produce Documentation**
- **Perform Development Cycle Review**
- **Prepare Application Release Checklist ***

More...

Develop (2)

- Obtain Implementation Approval**
- Establish Allocated Baseline**
- Conduct Release Review ***
- Perform SQA Audit of Product**
- Perform SQA Review of Process**

Purchase/Customize/Integrate



Purchase/Customize/Integrate (1)

- Identify Integration Requirements**
- Perform Release Impact Analysis ***
- Prepare Software Development Plan**
- Develop Integrated Software Architecture ***
- Determine COTS Customization Requirements ***
- Determine COTS Modification Requirements ***
- Perform COTS Customization ***
- Modify COTS**

More...

Purchase/Customize/Integrate (2)

- Produce Documentation**
- Perform Development Cycle Review**
- Prepare Application Release Checklist ***
- Obtain Implementation Approval**
- Establish Allocated Baseline**
- Conduct Release Review ***
- Perform SQA Audit of Product**
- Perform SQA Review of Process**

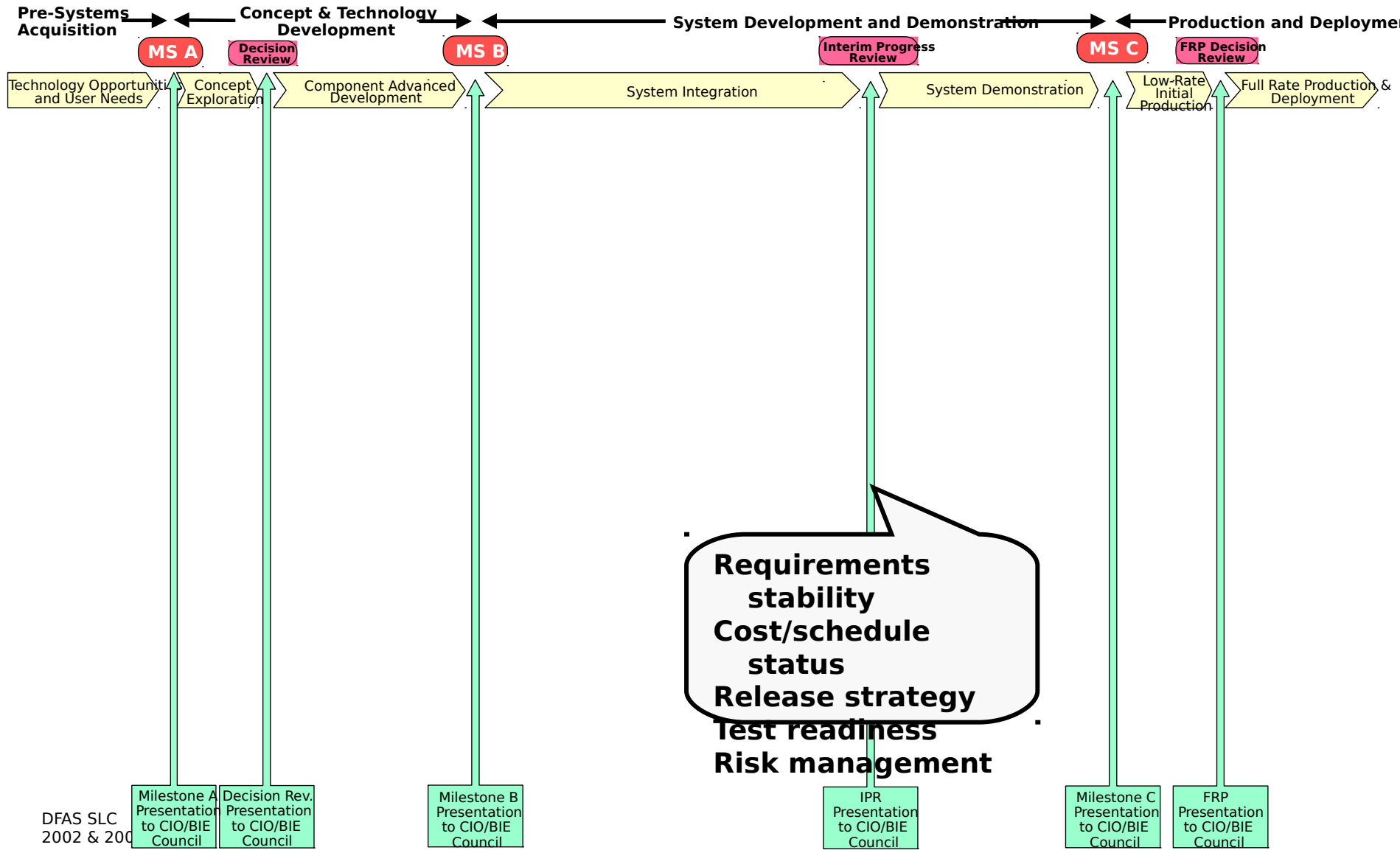
Test Planning

- **Prepare Test Plans ***

Configuration Management/ Quality Assurance

- Establish Allocated Baseline ***

Interim Progress Review



Interim Progress Review (1)

- Are requirements stable? Are changes controlled?
- Is the system architecture solid?
- Are performance measures used? Is performance on track?
- Are system interface agreements valid?
- Are original cost estimates still valid?
- Do actual expenditures track with estimates?
- Does actual schedule track with plan?
- Has release strategy changed (what capabilities to what customers in what time frames)?
- Is Program compliant with Clinger-Cohen Act?
- Is test strategy sound?

Interim Progress Review (2)

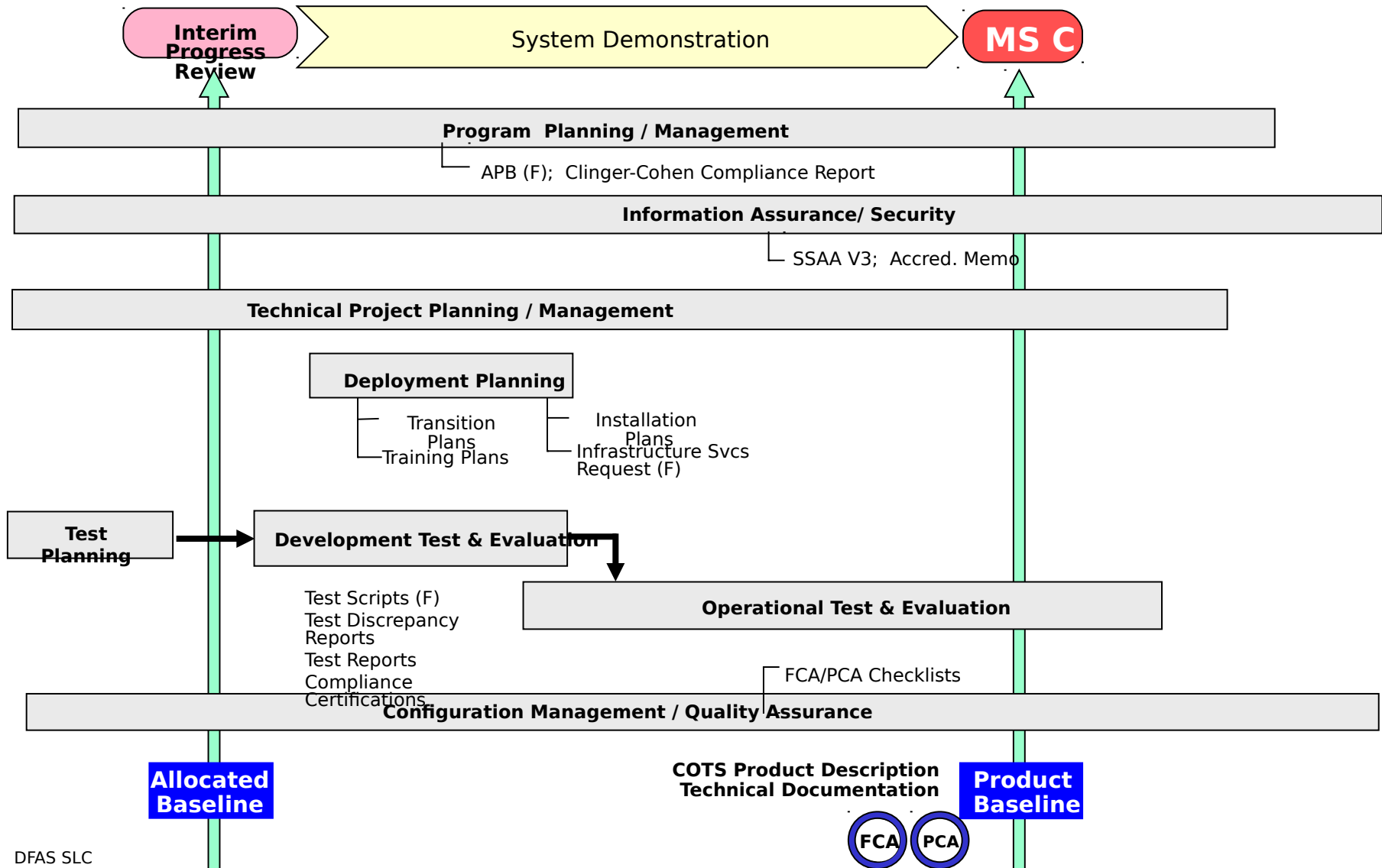
- Has transition to new business process & system been planned?
- Has user training been planned and funded?
- Are risks anticipated and mitigation planning done?
- Are there any user or customer issues?
- What problems arose during procurement and/or development?
- Is all required documentation prepared and approved?
- Is Program ready for testing? (some IPRs serve as TRRs)

Interim Progress Review:

Conclusion

- *MDA decides whether to:*
 - *Continue the project or program,*
 - *Modify the project or program, or*
 - *Terminate the project or program.*
- *MDA issues the
System Decision Memorandum*

System Demonstration Leads to Milestone C



System Demonstration

– **What's Done in this Phase:**

- Finalize the Acquisition Program Baseline (APB)
- Prepare Clinger-Cohen Compliance Report
- Control Program, Functional, and Allocated baselines
- Accredited system
- Plan deployment
- Perform DT&E
- Plan OT&E
- Perform Functional Configuration Audit
- Perform Physical Configuration Audit

– **Concludes with:**

- **Milestone C Review**

Program Planning/Management (2)

- Maintain Customer Relationship**
- Finalize Acquisition Program Baseline (APB)**
- Prepare Clinger-Cohen Act Compliance Report**
- Manage Program, Functional, and Allocated Baseline**
- Perform Program Management Reviews**
- Conduct Milestone C Review**

Information Assurance/Security (2)

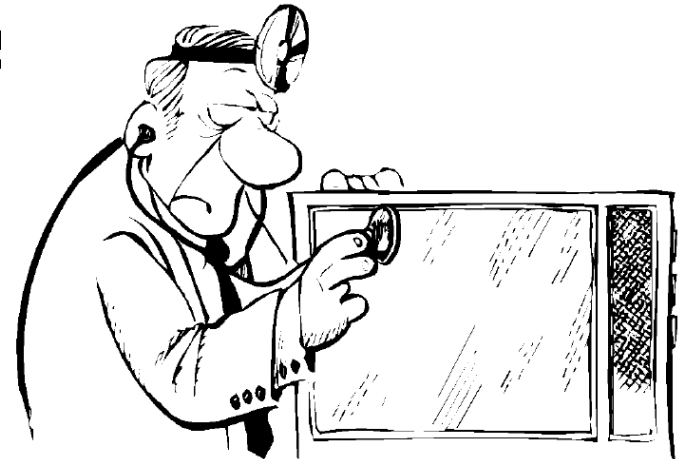
- Conduct DITSCAP Phase 3 Verification to include Accreditation Memo**

Deployment Planning

- **Establish Continuity of Operations Capability**
- **Establish Transition Strategy ***
- **Prepare Product Delivery and Installation Plans ***
- **Issue User Advisory ***
- **Prepare User Training Plans ***
- **Produce User Class Materials ***

Developmental Test and Evaluation

- Train Test Users ***
- Prepare Test Schedule ***
- Develop Test Scripts and Test Data ***
- Conduct Testing Peer Review ***
- Build Application Test Environment ***
- Conduct Test Readiness Review ***
- Perform Tests ***
- Approve and Certify Test Results ***



*** repeated
for
each**

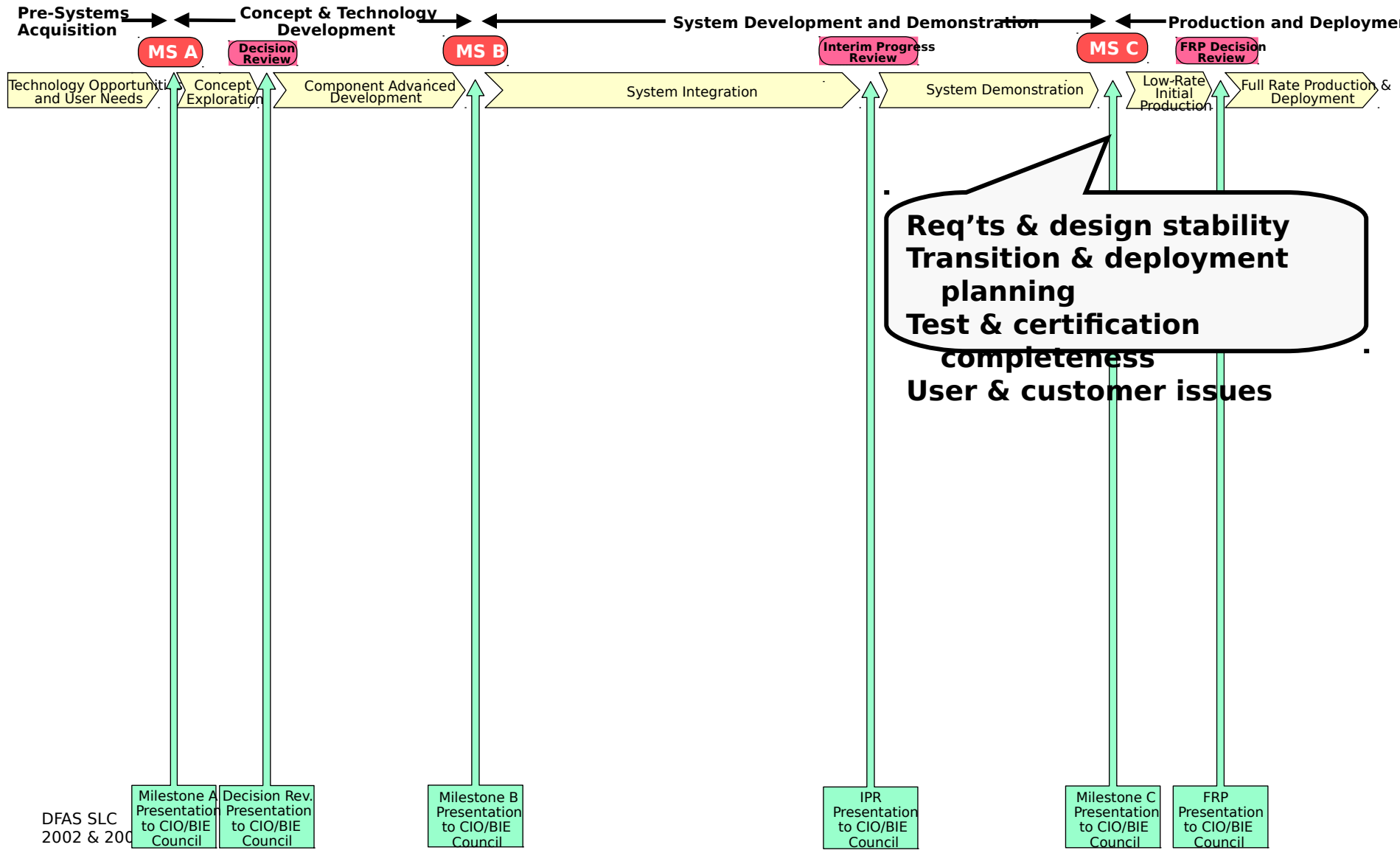
Operational Test and Evaluation

- Train Test Users ***
- Prepare Test Schedule ***
- Develop Test Scripts and Test Data ***
- Conduct Testing Peer Review ***
- Build Application Test Environment ***
- Conduct Test Readiness Review ***
- Perform Tests ***
- Approve and Certify Test Results ***

Configuration Management/ Quality Assurance

- Establish Product Baseline ***

Milestone C



Milestone C Briefing

MILESTONE C DECISION BRIEF PRESENTATION OUTLINE

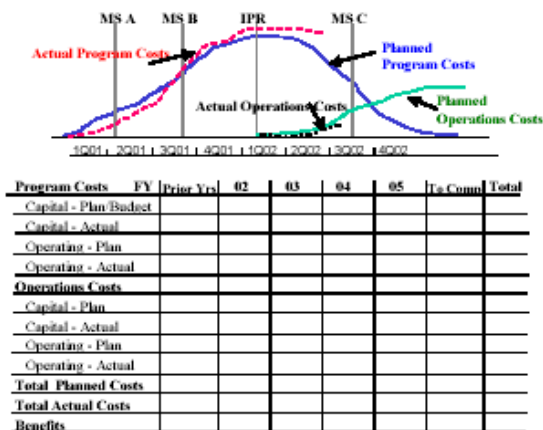
The Milestone C Decision Brief is a set of viewgraphs covering the following topics in a sequence selected by the briefer. Some of the material is updated from previous review briefs.

1. Architectural Summary

- Show and discuss the new concept of operation using the OV-1 and OV-2 charts; and others as needed. For OV and SV charts, see DFAS documentation standard for C4I Support Plan).
- Show a schematic diagram of system components and internal interfaces (SV-1 diagram)
- Show diagram of external interfaces (SV-4 diagram)

2. Cost Performance

- **Summary Costs.** In a chart similar to below, provide a table and chart showing costs and benefits by year and milestone, updated from the Milestone B Decision Brief and the Interim Progress Review (IPR).



- **Return on Investment.** In a table similar to below, updated from the Milestone B Decision Brief and the IPR, show the net present value of future benefits, the payback period, the savings-to-cost ratio, the benefits-to-cost ratio, and the internal rate of return.

Future Costs		Future Benefits		Net Present Value of Benefits	Payback Period (Years)	Return on Investment		
Nominal	Present Value	Nominal	Present Value			Savings-to-Cost Ratio	Benefits-to-Cost Ratio	Internal Rate of Return
\$12,000	\$10,155	\$27,600	\$19,184	\$9,029	8	1.5	1.9	14%

- **Detailed Costs.** In a table similar to below, show approved estimated costs (from Life Cycle Cost Estimate (LCCE) or other approved document) for major cost categories by year versus actual expenditures (for past years) or proposed revised estimates (for current and future years). Cost categories listed below are examples only. Highlight any changes from the IPR brief.

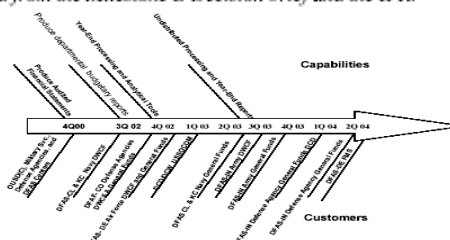
Cost Category	Year - 1	Current Year	Year + 1	Year + 2	Etc.
PMO Operations					
Requirements Gathering/Analysis					
Information Assurance					
TSO Cost					
COTS Product Bus/Support					
Training					
Network Infrastructure (DISA)					
Development Testing					
Operational Test and Evaluation					
Maintenance					
Total					

3. Schedule Performance

- In a table similar to below, list major milestones, their originally planned completion dates, and either their actual completion dates (for completed tasks) or, if relevant, a revised completion date. Milestones shown are examples only.

Milestone	Original Completion Date	Revised Estimated Completion Date	Actual Completion Date
Requirements Analysis			
Milestone B			
Development - Release 1			
DT&E - Release 1			
Development - Release 2			
DT&E - Release 2			
Milestone C			
OT&E			
IOC			
FOC			

- **Deployment schedule.** Identify what capabilities are delivered to what customers and users in what releases. Consider using a fishbone diagram similar to that shown below. This is updated from the Milestone B Decision Brief and the IPR.



Milestone C (1)

- Are requirements stable? Are changes controlled?
- Is the system architecture solid?
- Are performance measures used? Is perf. on track?
- Are system interface agreements valid?
- Are approved cost estimates still valid?
- Do actual expenditures track with estimates?
- Does actual schedule track with plan?
- Has release strategy changed (what capabilities to what customers in what time frames)?
- Is Program compliant with Clinger-Cohen Act?
- Was development testing successful?

Milestone C (2)

- Has transition to new business process & system been planned?
- Has user training been planned and funded?
- Are risks anticipated and mitigation planning done?
- Are there any user or customer issues?
- What problems arose during testing?
- Is all required documentation prepared and approved?
- Is Program ready for OT&E? (some IPRs serve as TRRs)
- Has USD(C) approved system deployment??

Milestone C: Conclusion

- *MDA decides whether to:*
 - *Continue the project or program,*
 - *Modify the project or program, or*
 - *Terminate the project or program.*
- *MDA issues the
System Decision Memorandum*